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Application No. 10/659,748 Attorney Docket No. 031140 Amendment under 37 C.F.R. §1.116 Amendment filed: June 7, 2007

AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

1. (Currently Amended) A method of manufacturing a semiconductor device, comprising the steps of:

forming a first insulation film on a surface by oxidizing a surface of a semiconductor substrate by cleaning the surface of said semiconductor substrate with using a strongly acidic solution after cleaning the surface of said semiconductor substrate; and

by performing low-temperature processing, and changing said first insulation film into a second insulation a processing for the formation of a film of the same material as said first insulation film at low-temperature, forming a second insulation film of the same material as said first insulation film so that said second insulation film embraces said first insulation film.

- 2. (Original) The method of manufacturing the semiconductor device according to claim 1, wherein said second insulation film is formed in an atmosphere containing a radical.
- 3. (Original) The manufacturing method of the semiconductor device according to claim 1, wherein said second insulation film is formed by plasma oxidation in an atmosphere containing an oxide radical.
 - 4. (Canceled)

5. (Currently Amended) The method of manufacturing the semiconductor device according to claim 1,

wherein said second insulation film is formed as an ONO film is composed of a first oxide film, a nitride film and a second oxide film, which are sequentially formed on said semiconductor substrate, and said second insulation film is formed as said first oxide film among said ONO film.

- 6. (Original) The method of manufacturing the semiconductor device according to claim 1, wherein said strongly acidic solution is a solution containing nitric acid.
- 7. (Previously Presented) The method of manufacturing the semiconductor device according to claim 6, wherein said solution containing the nitric acid is 70 °C or higher in temperature.
- 8. (Original) The method of manufacturing the semiconductor device according to claim 1, wherein said strongly acidic solution is a solution containing ozone.
- 9. (Original) The method of manufacturing the semiconductor device according to claim 1, wherein said low-temperature processing is conducted at a temperature of 650 °C or lower.
- 10. (Original) The method of manufacturing the semiconductor device according to claim 1, wherein said first insulation film has a film thickness of 1 nm or more.

- 11. (Original) The method of manufacturing the semiconductor device according to claim 1, wherein said second insulation film is a gate insulation film or a tunnel insulation film.
- 12. (Original) The method of manufacturing the semiconductor device according to claim 2, wherein said strongly acidic solution is a solution containing nitric acid.
- 13. (Original) The method of manufacturing the semiconductor device according to claim 3, wherein said strongly acidic solution is a solution containing nitric acid.
- 14. (Original) The method of manufacturing the semiconductor device according to claim 2, wherein said strongly acidic solution is a solution containing ozone.
- 15. (Original) The method of manufacturing the semiconductor device according to claim 3, wherein said strongly acidic solution is a solution containing ozone.
- 16. (Original) The method of manufacturing the semiconductor device according to claim 2, wherein said low-temperature processing is conducted at a temperature of 650 °C or lower.
- 17. (Original) The method of manufacturing the semiconductor device according to claim 2, wherein said second insulation film is a gate insulation film or a tunnel insulation film.

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18. (Original) The method of manufacturing the semiconductor device according to claim 3, wherein said second insulation film is a gate insulation film or a tunnel insulation film.

19. (Previously Presented) The method of manufacturing the semiconductor device according to claim 1, further comprising the step of:

after said first isolation is formed, leaving said first isolation film as it is for a fixed time, wherein said second isolation film is formed after said first isolation film is left as it is for the fixed time.